

**Project Name:** PSTM Phase 4: Radio/IP Integration for Interoperability and Redundancy

**OCIO Project #:**

**Department:** Parks and Recreation

**Revision Date:**

## Concept Statement

### Description

#### **Brief description of the proposed project:**

The proposed project would add Internet Protocol support to the Departments public safety radio network to improve interoperability and to provide redundancy for our public safety radio communications. The project will improve the reliability of public safety communications by providing redundant and alternate paths to the Departments remote radio repeater sites, base station radio systems, and communication centers throughout the Department using Internet Protocol (IP-based data) connections to improve the resiliency of radio communications.

### Need Statement

#### **High Level Capabilities Needed:**

The Department has dozens of radio repeater sites throughout the state that are remotely connected to the Department's three (3) communications centers over tenuous communications links that lack redundancy and have multiple points of failure. Our public safety radio system needs the ability to be able to dynamically re-route connections between radio repeater sites, base stations and our communication centers to improve resiliency and for operational recovery purposes. Integrating TCP/IP capabilities into the design of our radio communications will increase the reliability and resiliency of our public safety radio system.

#### **What is Driving This Need?**

Many of our remote radio repeater sites and base stations are located in some of the most remote regions of the state. Existing communication paths to these repeater sites and base stations traverse areas that are currently subject to fire, earthquake, malicious activity, and other disasters. Adding redundant IP-based communication paths to these remote repeater sites and base stations will improve the reliability of communications to Peace Officers operating in some of the most remote regions of the state.

#### **Risk to the Organization if This Work is Not Done:**

The Department is currently at risk for the complete loss of radio communications between our Peace Officers in the field and our Dispatch Communications Centers in the event of fire, earthquake, malicious activity, or other disasters.

## CA - PMM

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### Benefit Statement

#### Intangible Benefits

**Process Improvements** (describe the nature of the process improvement):

DPR is responsible for public safety in 279 State Parks recreation areas, beaches, cultural sites, and historic sites located throughout California. The safety of our eighty-two (82) million annual visitors, as well as the protection of critical public infrastructure within our parks (including eight dams, reservoirs, and lakes), depends upon our public safety program. In addition, the Department's public safety program also protects the extraordinary natural and cultural resources that are contained within our world famous State Park System.

**Other Intangible Benefits:**

#### Tangible Benefits

**Revenue Generation** (describe how revenue will be generated):

TBD after the Feasibility Study Report is completed

**Cost Savings** (describe how cost will be reduced):

TBD after the Feasibility Study Report is completed

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**Cost Avoidance** (describe the cost and how avoided):

TBD after the Feasibility Study Report is completed


**Risk Avoidance** (describe the risk and how avoided):

TBD after the Feasibility Study Report is completed

**Improved Services:**

TBD after the Feasibility Study Report is completed

### Consistency

“No” Responses 		Rationale	Action Required
Enterprise Architecture			
Business Plan			
Strategic Plan			

### Impact to Other Agencies

#### Nature of Impact to Other Agencies

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**Agency:**

*Describe the nature of the impact:*

TBD after the Feasibility Study Report is completed

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### Solution Alternatives

#### Alternative 1:

TBD after the Feasibility Study Report is completed

#### Technical Considerations for Alternative 1:

TBD after the Feasibility Study Report is completed

ROM Cost: to

Note: high end of range must not exceed 200% of low end of range

#### Alternative 2:

TBD after the Feasibility Study Report is completed

#### Technical Considerations for Alternative 2:

TBD after the Feasibility Study Report is completed

ROM Cost: to

Note: high end of range must not exceed 200% of low end of range

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### Alternative 3:

TBD after the Feasibility Study Report is completed

### Technical Considerations for Alternative 3:

TBD after the Feasibility Study Report is completed

ROM Cost:

to

Note: high end of range must not exceed 200% of low end of range

## Recommendation

### Comparison:

Alternative 1	ROM Cost	Risk
	\$0 - \$0	
Alternative 2	ROM Cost	Risk
	\$0 - \$0	
Alternative 3	ROM Cost	Risk
	\$0 - \$0	

### Conclusions:

1	
2	
3	
4	

## CA - PMM

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**Recommendation:**

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### Concept Approach *(if known)*

<b>System Complexity:</b>			System Business Hours: (e.g., 24x7, 9am-5pm) :		
Architecture	<input type="checkbox"/> Mainframe	<input type="checkbox"/> Client Server	<input type="checkbox"/> Web Based		Num. of New Databases:
Technology	<input type="checkbox"/> New	<input type="checkbox"/> New to Staff	<input type="checkbox"/> In-House Experience		Interfaces:
Implementation	<input type="checkbox"/> Central Site	<input type="checkbox"/> Phased Roll-out			Num. of Sites:
M & O Support	<input type="checkbox"/> Contractor	<input type="checkbox"/> Data Center	<input type="checkbox"/> Project	<input type="checkbox"/> Returned to Sponsor	
Procurement Approach: (consult with OSI Procurement Center)					Number
Open Procurement?		Delegated Procurement?			
Scope of Contract	<input type="checkbox"/> Development	<input type="checkbox"/> Implementation	<input type="checkbox"/> M & O	<input type="checkbox"/> Other:	
Anticipated Length of Contract:		Years / extensions for years			